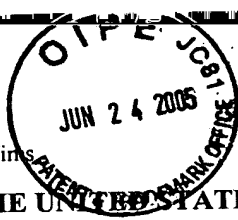


Docket No. 219294US2S/ins



17w 2673

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Norio NAKAMURA

SERIAL NO: 10/066,565

GAU: 2673

FILED: February 6, 2002

EXAMINER: L. E. LEFLORE

RCE FILED: November 24, 2004

FOR: DRIVING METHOD FOR FLAT-PANEL DISPLAY DEVICE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☒ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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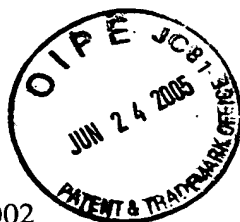
DOCKET NO.: 219294US2S

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IN RE APPLICATION OF:

Norio NAKAMURA

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EXAMINER: L. E. LEFLORE

FOR: DRIVING METHOD FOR FLAT-PANEL DISPLAY DEVICE

STATEMENT OF RELEVANCY**Reference AO (JP-1097224) on Form PTO-1449:****Foreign Patent Documents**

Document No.: 10-97224, published April 14, 1998

Country: Japan

Copy of reference: attached

Language: non-English

English translation: not attached because it is not readily available

Concise Explanation of Relevance: The purpose of this invention is to realize large-capacity, high-quality halftone display without increasing the number of video signal lines.

This invention comprises: a video signal line 10 for supplying a video signal 90; a precharge signal line 15 to which a predetermined precharge potential is applied; a control signal output circuit 20 which outputs first and second control signals at predetermined timing in correspondence with each of a plurality of signal lines; a plurality of second switch elements $22_i \dots 22_n$ which are provided in correspondence with each of the plurality of signal lines and supplies a video signal to the capacity added to each corresponding signal line in response to the first control signal; and a plurality of third switch elements $22_i \dots 22_n$ which are provided in correspondence with each of the plurality of signal lines and supplies the precharge potential to the capacity added to each corresponding signal line in response to the second control signal, wherein the potential of the precharge signal line is a fixed potential between a black level and a white level of the potential of the video signal supplied to the video signal line.

Reference AP (JP 7-295520) on Form PTO 1449:

Foreign Patent Documents

Document No.: 7-295520, published November 10, 1995

Country: Japan

Copy of reference: attached

Language: non-English

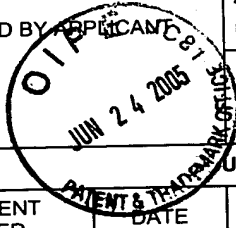
English translation: not attached because it is not readily available

Concise Explanation of Relevance: The purpose of this invention is to control a potential swig of a video line caused as the sampling rate increases.

An active matrix display comprises gate lines X (row lines), signal lines Y (column lines) and liquid crystal pixels LC (matrix) which are arranged at the intersections of the gate lines and signal lines. A V-driver 1 sequentially scans each of the gate lines X and elects the liquid crystal pixels LC of one row for each horizontal period. An H-driver 2 transmits a video signal VSIG to each signal line Y for sequential sampling within a horizontal period, and writes the video signal VSIG to the elected liquid crystal pixels LC of one row in a dot sequential manner. Precharge means 4 sequentially supplies a predetermined precharge signal VPS to each signal line Y prior to the sequential sampling of the video signal VSIG to each signal line Y. The precharge means 4 comprises a plurality of switching elements PSW connected to an end portion of each of the signal lines Y and a P-driver 5 which controls switching of the switching elements PSW to supply a precharge signal VPS to each signal line Y.

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
219294US2SSERIAL NO.
10/066,565

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT
Norio NAKAMURAFILING DATE
February 6, 2002
PCE FILED: November 24, 2004GROUP
2673

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	10-97224	04/14/1998	JAPAN		X
	AP	7-295520	11/10/1995	JAPAN		X
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached
Examiner		Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.